(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



A 1861 D BINDLED IN BYSHIF HEN BEIN BEIN BENN BIN HAN DE HIKK BEIN BENN BENN BENN BIND BIND BIND HER BINDLEN HER HIR HELD

(43) International Publication Date 27 October 2005 (27.10.2005)

PCT

(10) International Publication Number WO 2005/100604 A2

(51) International Patent Classification⁷:

C12Q 1/68

(21) International Application Number:

PCT/US2005/010912

(22) International Filing Date: 31 March 2005 (31.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

Priority Data:		
60/559,042	1 April 2004 (01.04.2004)	US
60/559,275	1 April 2004 (01.04.2004)	US
60/559,040	1 April 2004 (01.04.2004)	US
60/559,225	1 April 2004 (01.04.2004)	US
60/559,011	1 April 2004 (01.04.2004)	US
60/559,202	1 April 2004 (01.04.2004)	US
60/559,203	1 April 2004 (01.04.2004)	US

(71) Applicant (for all designated States except US): SE-QUENOM, INC. [US/US]; 3595 John Hopkins Court, San Diego, CA 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MAH, Steven [US/US]; 12820 Via Nieve,#74, San Diego, CA 92130 (US). BRAUN, Andreas [DE/US]; 3935 Lago Di Grata Circle, San Diego, CA 92130 (US). KAMMERER, Stefan, M. [DE/US]; 3825 Elijah Court, Unit 334, San Diego, CA 92130 (US). NELSON, Matthew, Roberts [US/US]; 1250 Calle Prospero, San Marcos, CA 92069 (US). RENELAND, Rikard, Henry [SE/US]; 7555

Charmant Drive, #1114, San Diego, CA 92122 (US). LANGDOWN, Maria, L. [GB/US]; 1361 Reche Road, Fallbrook, CA 92028 (US).

- (74) Agents: GRANT, BRUCE, D. et al.; Bio Technology Law Group, 658 Marsolan Avenue, Solana Beach, CA 92075 (US).
- (81) Designated States (unless otherwise indicated. for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

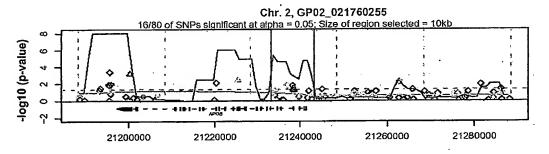
Published:

 without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: METHODS FOR IDENTIFYING RISK OF OSTEOARTHRITIS AND TREATMENTS THEREOF

APOB - FEMALE P-VALUES



Chromosome position

(57) Abstract: Provided herein are methods for identifying a risk of osteoarthritis in a subject, reagents and kits for carrying out the methods, methods for identifying candidate therapeutics for treating osteoarthritis, and therapeutic and preventative methods applicable to osteoarthritis. These embodiments are based upon an analysis of polymorphic variations in nucleotide sequences within the human genome.